

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001693

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☐ Claims Nos. :
because they relate to subject matter not required to be searched by this Authority; namely:
2. ☒ Claims Nos.: 1-15
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :

Claim 1 is vague and unclear. The preamble of the claim is directed to a screening method for inhibitors of cathepsin S; whereas the claim body is directed to a screening method for compounds which bind to cathepsin S (inhibition of cathepsin S activity is not monitored). Therefore, only a cursory search was carried out.
3. ☐ Claims Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observation where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

- 1) Claims 1-15: A method for identifying a compound as an inhibitor of cathepsin S activity.
- 2) Claims 16-19: Dipeptides of formula I

These two groups of inventions relate to different problems and different prior art must be considered. There is no technical relationship among them involving one or more of the same or corresponding special technical features. Hence they are not so linked as to form a single general inventive concept.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos. : 1-15

It is noted that only a cursory search was carried out (see Box No. II for details).

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001693

A. CLASSIFICATION OF SUBJECT MATTER
C07C 245/18, C12Q 1/37, C12Q 1/02, G01N 33/60, G01N 33/573, C07F 13/00

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C12Q, G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
WEST, Delphion, esp@cenet, NCBI PubMed

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CA2372968 (Claveau et al.) 16-11-2000 Abstract, Examples	1-15
Y	US5424205 (Dovey et al.) 13-06-1995 Claim 1	1
Y	US6348572 (Desmarais et al.) 19-02-2002 column 1, lines 40-60	1, 3-14
Y	WO9740066 (Massachusetts Institute of Technology) 30-10-1997 page 3, line 32; claims 20 and 27	4, 5, 13, 14

Further documents are listed in the continuation of Box C. ☐

Patent family members are listed in annex. ☒

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international-type search
23 December 2004 (23-12-2004)

Date of mailing of the international-type search report
31 January 2005 (31-01-2005)

Name and mailing address of the ISA/
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/CA2004/001693

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2372968	16-11-2000	CA2372968 A1	16-11-2000
		EP1214444 A2	19-06-2002
		JP2002543796T T	24-12-2002
		US6346373 B1	12-02-2002
		WO0068414 A2	16-11-2000
US5424205	13-06-1995	US5292652 A	08-03-1994
		US5424205 A	13-06-1995
		WO9207068 A1	30-04-1992
US6348572	19-02-2002	AU3648899 A	01-11-1999
		CA2269637 A1	14-05-1998
		EP0941232 A1	15-09-1999
		EP1071909 A1	31-01-2001
		JP2001506588T T	22-05-2001
		US6066715 A	23-05-2000
		US6267913 B1	31-07-2001
		US6348572 B1	19-02-2002
		US6608228 B1	19-08-2003
		US2002185634 A1	12-12-2002
		US2004110984 A1	10-06-2004
		WO9820024 A1	14-05-1998
		WO9821521 A1	22-05-1998
		WO9953242 A1	21-10-1999
WO9740066	30-10-1997	AT255126T T	15-12-2003
		AU723447 B2	24-08-2000
		AU2741897 A	12-11-1997
		CA2251714 A1	30-10-1997
		DE69726426D D1	08-01-2004
		DE69726426T T2	16-09-2004
		DK912601T T3	29-03-2004
		EP0912601 A1	06-05-1999
		EP1400530 A1	24-03-2004
		ES2208898T T3	16-06-2004
		JP2000509376T T	25-07-2000
		NZ332390 A	28-07-2000
		PT912601T T	30-04-2004
		US6608030 B1	19-08-2003
		US2003166534 A1	04-09-2003
		WO9740066 A1	30-10-1997

INTERNATIONAL SEARCH REPORT

International application No
PCT/CA2004/001685A CLASSIFICATION OF SUBJECT MATTER
F17C 3/02, F17C 1/12, B65D 81/38, B65D 77/04

B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC⁷ F17C, B65D 81/38, B65D 77/04 and US Cl 62/045 1, 62/54, 220/56 05, 220/420

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
Canadian Patents Database, Esp@cenet, US Patents Database using West 2 2. search terms used: (see extra sheet)

C DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 4,918,927 (EIGENBROD) 24 April, 1990, see the whole document	1 to 50
A	US 3,156,100 (HAETTINGER) 10 November, 1964, see the whole document	1 to 50
A, P	GB 2,398,115 (POOLE) 11 August, 2004, see abstract and figure no 3	1 to 50
A, P	DE 10249250 (BAUER) 06 May, 2004, see abstract	1 to 50
A	US 3,905,508 (HIBL) 16 September, 1975, see abstract	1 to 50

Patent family members are listed in annex

* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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23 January 2005Date of mailing of the international-type search report
23 February 2005 (23-02-2005)

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No
PCT/CA2004/001685

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US4918927	24-04-1990	None	
US3156100	10-11-1964	None	
GB2398115	11-08-2004	GB0227710D D0	08-01-2003
DE10249250	06-05-2004	None	
US3905508	16-09-1975	BE812895 A1 DE2415515 A1 FR2236140 A1 GB1437313 A IT1003863 B JP922180C C LU69725 A1 NL155935B B	15-07-1974 30-01-1975 31-01-1975 26-05-1976 10-06-1976 05-09-1978 17-07-1974 15-02-1978

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Search terms:

vessel, vacuum, cryogenic, fuel*, liqu*, gas*, heat, leak, conduct*, metal*, axial, radial, support,
LNG, insulation, hub, tub*